



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
245 PEACHTREE CENTER AVENUE NE, SUITE 1200
ATLANTA, GEORGIA 30303-1257

February 05, 2014

Mr. Joseph W. Shea
Vice President, Nuclear Licensing
Tennessee Valley Authority
1101 Market Street, LP 3D-C
Chattanooga, TN 37402-2801

SUBJECT: PUBLIC MEETING SUMMARY FOR BROWNS FERRY NUCLEAR PLANT,
DOCKET NO. 50-259, 50-260 and 50-296

Dear Mr. Shea:

This refers to the meeting conducted near the Browns Ferry Nuclear Plant on January 30, 2014. The meeting's purpose was to conduct a regulatory performance meeting to discuss the results of the follow-up inspection of the items identified in Confirmatory Action Letter (ML13232A105) of August 22, 2013, and to discuss the status of NRC's performance assessment of Browns Ferry Unit 1.

A list of attendees and a copy of the presentation handout are enclosed.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter will be made available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Should you have any questions concerning this meeting, please contact me at (404) 997-4607.

Sincerely,

/Craig Kontz RA for/

Jonathan H. Bartley, Chief
Reactor Projects Branch 6
Division of Reactor Projects

Docket No.: 50-259, 50-260, 50-296
License No.: DPR-33, DPR-52, DPR-68

Enclosures: 1. List of Attendees
2. NRC Meeting Slides
3. TVA Meeting Slides

cc distribution via ListServ

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PUBLICLY AVAILABLE NON-PUBLICLY AVAILABLE SENSITIVE NON-SENSITIVE
 ADAMS: Yes ACCESSION NUMBER: ML SUNSI REVIEW COMPLETE FORM 665 ATTACHED

OFFICE	RII:DRP	RII:DRP					
SIGNATURE	JDH /RA/	CRK /RA for/					
NAME	J. Hamman	J. Bartley					
DATE	02/05/2014	02/05/2014					
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

J. Shea

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Letter to Joseph W. Shea from Jonathan Bartley dated February 5, 2014

SUBJECT: PUBLIC MEETING SUMMARY FOR BROWNS FERRY NUCLEAR PLANT,
DOCKET NO. 50-259, 50-260 and 50-296

Distribution:

C. Evans, RII

L. Douglas, RII

OE Mail

RIDSNRRDIRS

PUBLIC

RidsNrrPMBrownsFerry Resource

NRC ATTENDEES

V. McCree, Regional Administrator, Region II
J. Bartley, Chief, Reactor Projects Branch 6 , DRP, RII
C. Kontz, Senior Project Engineer, Branch 6, DRP, RII
D. Dumbacher, Senior Resident Inspector, Browns Ferry, DRP, RII
L. Presley, Resident Inspector, Browns Ferry, DRP, RII
T. Stephens, Resident Inspector, Browns Ferry, DRP, RII
C. White, Administrative Assistant, Browns Ferry, DRP, RII

Regulatory Performance Meeting for
Browns Ferry

SIGN IN SHEET

January 30, 2014

No.	Name	Organization
	CALLED IN BY BRIDGELINE	
	Bill Rubland	

Regulatory Performance Meeting for
Browns Ferry

SIGN IN SHEET

January 30, 2014

Name	Organization
Nanna Jones	
Larry Jones	Retired
Michael W Oliver	TVA Licensing
Angela Oliver	Public
Jim Morris	TVA
Kristyna Selph	TVA
Thomas Selph	TVA
Jim NESBITT	TVA
Jim Keenan	TVA
BRISTINE COFFERT	TVA
JIM HOPSON	TVA
GERRY DOYLE	TVA
Miguel Diaz-Luciel	WAFB
JAMES EMENS	TVA
Keith Pollock	TVA
Jim McCremon	Congress & EPA
Jack Posey	Shut/Ene Alliance
PAUL CANTARANO	TVA
Scott Annanwell	TVA
Joni Johnson	
Walter Link	TVA
CARY WORMAN	REST/WATER ALLIANCE
Margaret W. Wilcox	BEA
Matt Rasmussen	
JOE SHAW	TVA
Nancy Muse	
Michael James Burre	TVA

Name	Organization
Ray Saylor	TVA
Andrea K. Andrews	
Stella Markey	FOA
SONIA BURGESS	TALISMAN
Bruce Burgess	Talisman - Full
Tim & Heidi Scott	TVA
Brian Langston	HSW Times
Lorry Jones	Indiv - TVA Nat.
Stewart Hest	BEST
Cody Ruzio	Doctor Daily
SPENCER VANCE	TVA
SCOTT VANCE	TVA

Browns Ferry

Regulatory Performance Meeting

Nuclear Regulatory Commission – Region 2

Athens, AL

January 30, 2014



Meeting Purpose



- Present the Confirmatory Action Letter Follow-up Inspection Results
- Discuss the Current Performance Assessment of Browns Ferry Unit 1





Agenda

- Background
- CAL Inspection Results
- Unit 1 Regulatory Status
- Tennessee Valley Authority
- Public Questions
- Closing Remarks



Background

- June 2013, the NRC Completed 95003 Inspection
- In support of the post 95003 inspection CAL, on August 9, 2013, TVA submitted a letter to the NRC for Commitments Related to the Browns Ferry Integrated Improvement Plan (IIP) which identified short term (Tier 1) and long term (Tier 2) actions
- The NRC issued a Confirmatory Action Letter (CAL) on August 22, 2013
- CAL Follow-up Inspection completed December 13, 2013



Confirmatory Action Letter Follow-up Inspection



- **Inspection Objectives:**
 1. To determine whether adequate corrective actions had been implemented for one Severity Level (SL) III Violation and 10 CAL Tier 1 items
 2. To verify that the root causes of these enforcement actions had been identified, that their generic implications had been addressed, and that the licensee's programs and practices had been appropriately enhanced to prevent recurrence
 3. To determine whether CAL actions were effectively implemented as appropriate
 4. To determine whether closure of the Red Finding and SL III Violation was appropriate, consistent with the NRC's Reactor Oversight Process and Enforcement Policy



Confirmatory Action Letter Follow-up Inspection

- 8 members from 3 regional offices and HQ
- **Inspection Results:**
 - The inspection team performed a detailed review of the implementation of the CAL commitments and determined that the licensee met the requirements for closure of all 10 Tier 1 commitments
 - No findings or violations were identified
 - The team documented observations to be used during assessment of Browns Ferry's performance

Confirmatory Action Letter Follow-up Inspection



- **Inspection Results (cont):**
 - The Confirmatory Action Letter Tier 1 (short term) Commitments Related to the IIP is closed. (EA-13-185)
 - The Red Finding is closed. (EA-11-018)
 - The 10 CFR 50.9 SL III Violation is closed. (EA-11-252)



Unit 1 Regulatory Status

Mid-Cycle Assessment For Browns Ferry Unit 1

- Unit 1 was in the Multiple/Repetitive Degraded Cornerstone Column due to a RED finding in the mitigating systems cornerstone associated with the failure of a Low Pressure Coolant Injection Valve beginning in the fourth quarter 2010.



Unit 1 Regulatory Status

Unit 1 has additional Action Matrix inputs

- 2 White Performance Indicators (PIs) in the Mitigating Systems Cornerstone
- Emergency AC Power Systems beginning the 4th quarter 2012
- High Pressure Injection System Beginning the 1st quarter 2013





Unit 1 Regulatory Status

- Red Finding is Closed but Unit 1 will continue to remain in Column 4
- Beginning October 1, 2013, Unit 1 met the definition of a Repetitive Degraded Cornerstone for the Mitigating Systems cornerstone as described in IMC 0305.
- This was due to having a degraded cornerstone with two white inputs beginning in the fourth quarter of 2012, for more than four quarters with one of those quarters having an additional white input (first quarter of 2013).



Unit 1 Regulatory Status

	Q4 2012	Q1 2013	Q2 2013	Q3 2013	Q4 2013
Unit 1	Multiple/ Repetitive Degraded Cornerstone	Multiple/ Repetitive Degraded Cornerstone	Multiple/ Repetitive Degraded Cornerstone	Multiple/ Repetitive Degraded Cornerstone	Multiple/ Repetitive Degraded Cornerstone
MS	White Violation				
				White High Pressure Coolant Injection PI	
				White Emergency AC Power Systems PI	
					Red Violation

End of Presentation

Nuclear Regulatory Commission Region II



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- **NRC places a high priority on keeping the public and stakeholders informed of its activities**
- **At www.nrc.gov, you can:**
 - Find public meeting dates and transcripts;
 - Read NRC testimony, speeches, press releases, and policy decisions; and
 - Access the agency’s Electronic Reading Room to find NRC publications and documents.

NRC Social Media Channels



- **Blog:** <http://public-blog.nrc-gateway.gov/>
- **Flickr:** <http://www.flickr.com/photos/nrcgov/>
- **Twitter:** <https://twitter.com/#!/nrcgov>
- **YouTube:** <http://www.youtube.com/user/NRCgov>
- **RSS:** <http://www.nrc.gov/public-involve/listservers.html#rss>

Actions in Response to the Japan Nuclear Accident




- **Actions in response to Japan Nuclear Accident**
Website: <http://www.nrc.gov/japan/japan-info.html>
- **Mailbox for comments on staff actions:**
JLD_Public.Resource@nrc.gov
- **Office of Public Affairs Point of Contact:**
OPA.resource@nrc.gov or 301-415-8200






Contacting the NRC

- Report an emergency
 - (301) 816-5100 (call collect)
- Report a safety concern
 - (800) 695-7403
 - Allegation@nrc.gov
- General information or questions
 - www.nrc.gov
- Contact Browns Ferry Resident Inspectors
 - 256-729-6196


<p>Browns Ferry Nuclear Plant</p> <p>Regulatory Performance Public Meeting</p> <p>January 30, 2014</p>

	<p>Discussion Points</p>
<p>Integrated Improvement Plan</p> <p>Nuclear Safety Culture</p> <p>Sustainability</p>	

TVA Nuclear **Integrated Improvement Plan**

Integrated Improvement Plan developed to:

- Address the rod finding, the fundamental problems, and the independent nuclear safety culture assessment results;
- Reduce risk;
- Improve equipment reliability; and
- Ensure sustained performance improvement.

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TVA Nuclear **Integrated Improvement Plan**

Legend:

- Completed (Orange box)
- In Progress (Blue box)
- Planned (Yellow box)
- Not Started (White box)

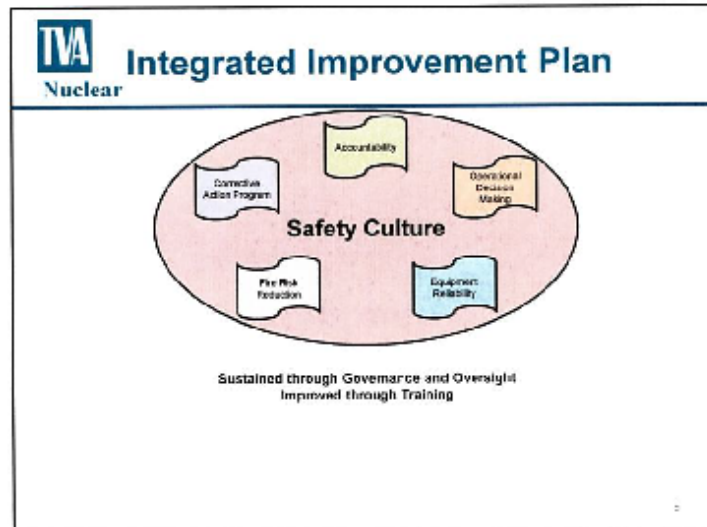
Key Milestones:

- ASCA Review (Completed)
- ASCA Report (Completed)
- ASCA Implementation (Planned)
- ASCA Report (Planned)

Flowchart Steps:

- Objective Evaluation
- Cost Analysis
- Action Plan Development
- Integrated Improvement Plan
- Performance Improvement: Improvement & Risk Reduction
- ASCA Implementation (April 22 - May 26, 2013)
- Performance Action Plan
- Continued Performance Improvement
- Sustained Performance Improvement

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TVA Nuclear Nuclear Safety Culture

2013 INSCA Results

- Nuclear Safety Culture (NSC) has improved and is rated Area of Competency or 2nd quartile.
- Nuclear Safety Values, Behaviors & Practices (NSVB&P) has improved and is rated 2nd quartile.
- Safety Conscious Work Environment (SCWE) has improved and is rated as an Area of Competency or 2nd quartile.
- Employee Concerns Program (ECP) performance improved and is rated an Area of Competency or 2nd quartile.

Summary of Survey Results		
Dimension	2011 Rating	2013 Rating
NSC	4 th quartile	2 nd quartile
NSVB&P	4 th quartile	2 nd quartile
SCWE	4 th quartile	2 nd quartile
ECP	3 rd quartile	2 nd quartile



Nuclear Safety Culture


2013 INSCA Results (continued)

- > General Culture and Work Environment (GCWE) improved and is rated an Area of Strength.
- > Leadership, Management and Supervisory (LMS) skills and practices improved and is rated as an Area of Strength.

Summary of Survey Results		
Dimension	2011 Rating	2013 Rating
GCWE	2 nd quartile	1 st quartile
LMS	3 rd quartile	1 st quartile
Weaknesses	77	4
Priority Organizations	23	4

Conclusion

- > BFN has made good progress in improving the nuclear safety culture.
- > However, BFN will maintain focus on nuclear safety culture to ensure continued improvement.



Sustainability

- Procedure Upgrade Project (PUP)
- Fundamental Problem Closure
- Transition to National Fire Protection Association (NFPA) 805
- Equipment Reliability
- Transition from Integrated Improvement Plan (IIP) to Integrated Excellence Plan
- Governance, Oversight, Execution, and Support (GOES) Model